

METHOD FOR CASTING AMORPHOUS ALLOY

Publication number: JP2002045960

Publication date: 2002-02-12

Inventor: SHIMIZU SUSUMU; MORI KENYA; SHIODA SHIGEO

Applicant: TANAKA PRECIOUS METAL IND

Classification:

- international: **A61C13/20; B22D18/04; B22D21/00; B22D27/04;
C22C5/04; C22C45/00; C22C5/04; A61C13/20;
B22D18/04; B22D21/00; B22D27/04; C22C5/00;
C22C45/00; C22C5/00; (IPC1-7): C22C5/04;
B22D27/04; A61C13/20; B22D18/04; B22D21/00;
C22C45/00**

- European:

Application number: JP20000237903 20000807

Priority number(s): JP20000237903 20000807

Report a data error here

Abstract of JP2002045960

PROBLEM TO BE SOLVED: To provide an amorphous alloy containing much noble metals and absolutely no nickel, provided that a bulk body having the amorphous structure can be formed even in the case of solidifying this alloy at the comparatively low cooling speed. **SOLUTION:** In a casting method for casting molten metal of a composition having a morphous forming performance into a mold manufactured with a lost wax method, to make the amorphous alloy, the molten metal is cast into the mold while being cooled to not higher than the crystallized temperature of the amorphous alloy. Then, it is desirable to cast the molten metal while heating and holding to the temperature from the melting point -100 deg.C to the melting point +200 deg.C. The producing method of the amorphous alloy is suitable to form the alloy having the composition of e.g. 50<=Pt<=75%, 5<=Cu<=50%, 25<=P<=25% or 5<=Pt<=75%, 0<Pd<=50%, 5<=Cu<=50%, 15<=P<=25% (all contents are atomic %) while making it amorphous.

Data supplied from the esp@cenet database - Worldwide